IFWO

RAW SEQUENCE LISTING   DATE: 09/03/2004
PATENT APPLICATION: US/10/809,689   TIME: 11:39:25

        Input Set : A:\5538-1010seqlisting.txt
        Output Set: N:\CRF4\09032004\J809689.raw

        3 <110> APPLICANT: Eric Potter Clarkson
        5 <120> TITLE OF INVENTION: Methods and compositions for desensitisation
        7 <130> FILE REFERENCE: 5538/1010
C-->   9 <140> CURRENT APPLICATION NUMBER: US/10/809,689
C-->   10 <141> CURRENT FILING DATE: 2004-03-25
       12 <150> PRIOR APPLICATION NUMBER: PCT/GB99/00080
       13 <151> PRIOR FILING DATE: 1999-01-11
       15 <150> PRIOR APPLICATION NUMBER: GB/9800445.0
       16 <151> PRIOR FILING DATE: 1998-01-09
       18 <150> PRIOR APPLICATION NUMBER: GB/9820474.6
       19 <151> PRIOR FILING DATE: 1998-09-21
       21 <160> NUMBER OF SEQ ID NOS: 124
       23 <170> SOFTWARE: PatentIn version 3.0
       25 <210> SEQ ID NO: 1
       26 <211> LENGTH: 17
       27 <212> TYPE: PRT
       28 <213> ORGANISM: Felis catus
       30 <400> SEQUENCE: 1
       32 Leu Phe Leu Thr Gly Thr Pro Asp Glu Tyr Val Glu Gln Val Ala Gln
       33 1   5   10   15
       35 Tyr
       38 <210> SEQ ID NO: 2
       39 <211> LENGTH: 16
       40 <212> TYPE: PRT
       41 <213> ORGANISM: Felis catus
       43 <400> SEQUENCE: 2
       45 Glu Gln Val Ala Gln Tyr Lys Ala Leu Pro Val Val Leu Glu Asn Ala
       46 1   5   10   15
       48 <210> SEQ ID NO: 3
       49 <211> LENGTH: 17
       50 <212> TYPE: PRT
       51 <213> ORGANISM: Felis catus
       53 <400> SEQUENCE: 3
       55 Lys Ala Leu Pro Val Val Leu Glu Asn Ala Arg Ile Leu Lys Asn Cys
       56 1   5   10   15
       58 Val
       61 <210> SEQ ID NO: 4
       62 <211> LENGTH: 70
       63 <212> TYPE: PRT
       64 <213> ORGANISM: Felis catus
       66 <400> SEQUENCE: 4
       68 Glu Ile Cys Pro Ala Val Lys Asp Arg Val Asp Leu Phe Leu Thr Gly
       69 1   5   10   15

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71 Thr Pro Asp Glu Tyr Val Glu Gln Val Ala Gln Tyr Lys Ala Leu Pro
72         20              25              30
74 Val Val Leu Glu Asn Ala Arg Ile Leu Lys Asn Cys Val Asp Ala Lys
75         35              40              45
77 Met Thr Glu Glu Asp Lys Glu Asn Ala Leu Ser Leu Leu Asp Lys Ile
78         50              55              60
80 Tyr Thr Ser Pro Leu Cys
81 65                 70
83 <210> SEQ ID NO: 5
84 <211> LENGTH: 92
85 <212> TYPE: PRT
86 <213> ORGANISM: Felis catus
88 <400> SEQUENCE: 5
90 Val Lys Met Ala Glu Thr Cys Pro Ile Phe Tyr Asp Val Phe Phe Ala
91 1          5              10              15
93 Val Ala Asn Gly Asn Glu Leu Leu Leu Lys Leu Ser Leu Thr Lys Val
94         20              25              30
96 Asn Ala Thr Glu Pro Glu Arg Thr Ala Met Lys Lys Ile Gln Asp Cys
97         35              40              45
99 Tyr Val Glu Asn Gly Leu Ile Ser Arg Val Leu Asp Gly Leu Val Met
100        50              55              60
102 Thr Thr Ile Ser Ser Ser Lys Asp Cys Met Gly Glu Ala Val Gln Asn
103 65              70              75              80
105 Thr Val Glu Asp Leu Lys Leu Asn Thr Leu Gly Arg
106             85              90
108 <210> SEQ ID NO: 6
109 <211> LENGTH: 17
110 <212> TYPE: PRT
111 <213> ORGANISM: Felis catus
113 <400> SEQUENCE: 6
115 Glu Ile Cys Pro Ala Val Lys Arg Asp Val Asp Leu Phe Leu Thr Gly
116 1          5              10              15
118 Thr
121 <210> SEQ ID NO: 7
122 <211> LENGTH: 17
123 <212> TYPE: PRT
124 <213> ORGANISM: Felis catus
126 <400> SEQUENCE: 7
128 Arg Ile Leu Lys Asn Cys Val Asp Ala Lys Met Thr Glu Glu Asp Lys
129 1          5              10              15
131 Glu
134 <210> SEQ ID NO: 8
135 <211> LENGTH: 16
136 <212> TYPE: PRT
137 <213> ORGANISM: Felis catus
139 <400> SEQUENCE: 8
141 Lys Met Thr Glu Glu Asp Lys Glu Asn Ala Leu Ser Leu Leu Asp Lys
142 1          5              10              15
144 <210> SEQ ID NO: 9
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145 <211> LENGTH: 16
146 <212> TYPE: PRT
147 <213> ORGANISM: Felis catus
149 <400> SEQUENCE: 9
151 Lys Glu Asn Ala Leu Ser Val Leu Asp Lys Ile Tyr Thr Ser Pro Leu
152 1               5                   10                  15
154 <210> SEQ ID NO: 10
155 <211> LENGTH: 16
156 <212> TYPE: PRT
157 <213> ORGANISM: Felis catus
159 <400> SEQUENCE: 10
161 Val Lys Met Ala Glu Thr Cys Pro Ile Phe Tyr Asp Val Phe Phe Ala
162 1               5                   10                  15
164 <210> SEQ ID NO: 11
165 <211> LENGTH: 17
166 <212> TYPE: PRT
167 <213> ORGANISM: Felis catus
169 <400> SEQUENCE: 11
171 Cys Pro Ile Phe Tyr Asp Val Phe Phe Ala Val Ala Asn Gly Asn Glu
172 1               5                   10                  15
174 Leu
177 <210> SEQ ID NO: 12
178 <211> LENGTH: 16
179 <212> TYPE: PRT
180 <213> ORGANISM: Felis catus
182 <400> SEQUENCE: 12
184 Gly Asn Glu Leu Leu Leu Lys Leu Ser Leu Thr Lys Val Asn Ala Thr
185 1               5                   10                  15
187 <210> SEQ ID NO: 13
188 <211> LENGTH: 16
189 <212> TYPE: PRT
190 <213> ORGANISM: Felis catus
192 <400> SEQUENCE: 13
194 Leu Thr Lys Val Asn Ala Thr Glu Pro Glu Arg Thr Ala Met Lys Lys
195 1               5                   10                  15
197 <210> SEQ ID NO: 14
198 <211> LENGTH: 16
199 <212> TYPE: PRT
200 <213> ORGANISM: Felis catus
202 <400> SEQUENCE: 14
204 Thr Ala Met Lys Lys Ile Gln Asp Cys Tyr Val Glu Asn Gly Leu Ile
205 1               5                   10                  15
207 <210> SEQ ID NO: 15
208 <211> LENGTH: 16
209 <212> TYPE: PRT
210 <213> ORGANISM: Felis catus
212 <400> SEQUENCE: 15
214 Cys Tyr Val Glu Asn Gly Leu Ile Ser Arg Val Leu Asp Gly Leu Val
215 1               5                   10                  15
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Input Set : A:\5538-1010seqlisting.txt
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217 <210> SEQ ID NO: 16
218 <211> LENGTH: 16
219 <212> TYPE: PRT
220 <213> ORGANISM: Felis catus
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224 Ser Arg Val Leu Asp Gly Leu Val Met Thr Thr Ile Ser Ser Ser Lys
225 1               5                   10                  15
227 <210> SEQ ID NO: 17
228 <211> LENGTH: 16
229 <212> TYPE: PRT
230 <213> ORGANISM: Felis catus
232 <400> SEQUENCE: 17
234 Ile Ser Ser Ser Lys Asp Cys Met Gly Glu Ala Val Gln Asn Thr Val
235 1               5                   10                  15
237 <210> SEQ ID NO: 18
238 <211> LENGTH: 16
239 <212> TYPE: PRT
240 <213> ORGANISM: Felis catus
242 <400> SEQUENCE: 18
244 Ala Val Gln Asn Thr Val Glu Asp Leu Lys Leu Asn Thr Leu Gly Arg
245 1               5                   10                  15
247 <210> SEQ ID NO: 19
248 <211> LENGTH: 320
249 <212> TYPE: PRT
250 <213> ORGANISM: Dermatophagoides pteronyssinus
252 <400> SEQUENCE: 19
254 Met Lys Ile Val Leu Ala Ile Ala Ser Leu Leu Ala Leu Ser Ala Val
255 1               5                   10                  15
257 Tyr Ala Arg Pro Ser Ser Ile Lys Thr Phe Glu Glu Tyr Lys Lys Ala
258               20                  25                  30
260 Phe Asn Lys Ser Tyr Ala Thr Phe Glu Asp Glu Glu Ala Ala Arg Lys
261           35                  40                  45
263 Asn Phe Leu Glu Ser Val Lys Tyr Val Gln Ser Asn Gly Gly Ala Ile
264       50                  55                  60
266 Asn His Leu Ser Asp Leu Ser Leu Asp Glu Phe Lys Asn Arg Phe Leu
267 65                  70                  75                  80
269 Met Ser Ala Glu Ala Phe Glu His Leu Lys Thr Gln Phe Asp Leu Asn
270               85                  90                  95
272 Ala Glu Thr Asn Ala Cys Ser Ile Asn Gly Asn Ala Pro Ala Glu Ile
273               100                 105                 110
275 Asp Leu Arg Gln Met Arg Thr Val Thr Pro Ile Arg Met Gln Gly Gly
276           115                 120                 125
278 Cys Gly Ser Cys Trp Ala Phe Ser Gly Val Ala Ala Thr Glu Ser Ala
279       130                 135                 140
281 Tyr Leu Ala Tyr Arg Asn Gln Ser Leu Asp Leu Ala Glu Gln Glu Leu
282 145                 150                 155                 160
284 Val Asp Cys Ala Ser Gln His Gly Cys His Gly Asp Thr Ile Pro Arg
285               165                 170                 175
287 Gly Ile Glu Tyr Ile Gln His Asn Gly Val Val Gln Glu Ser Tyr Tyr
```

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Input Set : A:\5538-1010seqlisting.txt
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```
288             180              185              190
290 Arg Tyr Val Ala Arg Glu Gln Ser Cys Arg Arg Pro Asn Ala Gln Arg
291         195              200              205
293 Phe Gly Ile Ser Asn Tyr Cys Gln Ile Tyr Pro Pro Asn Val Asn Lys
294     210              215              220
296 Ile Arg Glu Ala Leu Ala Gln Thr His Ser Ala Ile Ala Val Ile Ile
297 225              230              235              240
299 Gly Ile Lys Asp Leu Asp Ala Phe Arg His Tyr Asp Gly Arg Thr Ile
300              245              250              255
302 Ile Gln Arg Asp Asn Gly Tyr Gln Pro Asn Tyr His Ala Val Asn Ile
303         260              265              270
305 Val Gly Tyr Ser Asn Ala Gln Gly Val Asp Tyr Trp Ile Val Arg Asn
306         275              280              285
308 Ser Trp Asp Thr Asn Trp Gly Asp Asn Gly Tyr Gly Tyr Phe Ala Ala
309     290              295              300
311 Asn Ile Asp Leu Met Met Ile Glu Glu Tyr Pro Tyr Val Val Ile Leu
312 305              310              315              320
314 <210> SEQ ID NO: 20
315 <211> LENGTH: 146
316 <212> TYPE: PRT
317 <213> ORGANISM: Dermatophagoides pteronyssinus
319 <400> SEQUENCE: 20
321 Met Met Tyr Lys Ile Leu Cys Leu Ser Leu Leu Val Ala Ala Val Ala
322 1               5               10              15
324 Arg Asp Gln Val Asp Val Lys Asp Cys Ala Asn His Glu Ile Lys Lys
325         20              25              30
327 Val Leu Val Pro Gly Cys His Gly Ser Glu Pro Cys Ile Ile His Arg
328     35              40              45
330 Gly Lys Pro Phe Gln Leu Glu Ala Val Phe Glu Ala Asn Gln Asn Thr
331     50              55              60
333 Lys Thr Ala Lys Ile Glu Ile Lys Ala Ser Ile Asp Gly Leu Glu Val
334 65              70              75              80
336 Asp Val Pro Gly Ile Asp Pro Asn Ala Cys His Tyr Met Lys Cys Pro
337             85              90              95
339 Leu Val Lys Gly Gln Gln Tyr Asp Ile Lys Tyr Thr Trp Asn Val Pro
340             100             105             110
342 Lys Ile Ala Pro Lys Ser Glu Asn Val Val Val Thr Val Lys Val Met
343         115             120             125
345 Gly Asp Asp Gly Val Leu Ala Cys Ala Ile Ala Thr His Ala Lys Ile
346     130             135             140
348 Arg Asp
349 145
351 <210> SEQ ID NO: 21
352 <211> LENGTH: 261
353 <212> TYPE: PRT
354 <213> ORGANISM: Dermatophagoides pteronyssinus
356 <400> SEQUENCE: 21
358 Met Ile Ile Tyr Asn Ile Leu Ile Val Leu Leu Leu Ala Ile Asn Thr
359 1               5               10              15
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 09/03/2004
PATENT APPLICATION: US/10/809,689   TIME: 11:39:26

Input Set : **A:\5538-1010seqlisting.txt**
Output Set: **N:\CRF4\09032004\J809689.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:22; Xaa Pos. 3,10,16
Seq#:24; Xaa Pos. 4
Seq#:43; Xaa Pos. 103
Seq#:91; Xaa Pos. 5,17
Seq#:92; Xaa Pos. 39
Seq#:112; Xaa Pos. 3,28

VERIFICATION SUMMARY
PATENT APPLICATION: **US/10/809,689**

DATE: 09/03/2004
TIME: 11:39:26

Input Set : **A:\5538-1010seqlisting.txt**
Output Set: **N:\CRF4\09032004\J809689.raw**

```
L:9 M:270 C: Current Application Number differs, Replaced Current Application Number
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:421 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:22
L:421 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
L:473 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:24
L:473 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0
L:1280 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:43
L:1280 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:96
L:3610 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:91
L:3610 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:91 after pos.:0
M:341 Repeated in SeqNo=91
L:3634 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:92
L:3634 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:92 after pos.:32
L:4955 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:112
L:4955 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:112 after pos.:0
M:341 Repeated in SeqNo=112
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STATISTICS SUMMARY   DATE: 09/03/2004
PATENT APPLICATION: **US/10/809,689**   TIME: 11:39:26

Input Set : **A:\5538-1010seqlisting.txt**
Output Set: **N:\CRF4\09032004\J809689.raw**

Application Serial Number: US/10/809,689
Alpha or Numeric or Xml: Numeric
Application Class:
Application File Date: 03-25-2004
Art Unit: IFWO
Software Application: PatentIN3.0
Total Number of Sequences: 124
Total Nucleotides: 0
Total Amino Acids: 24874
Number of Errors: 0
Number of Warnings: 14
Number of Corrections: 2

MESSAGE SUMMARY

258 W: 6 (Mandatory Feature missing)
270 C: 1 (Current Application Number differs)
271 C: 1 (Current Filing Date differs)
341 W: 8 ((46) "n" or "Xaa" used)